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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	Lacy, Jack; Snyder, James; Maher, David; "Music on the Internet and the Intellectual Property Protection Problem"
Y	Yes	"The PowerTV White Paper", powertv.com website, Oct. 11, 1996
Y	Yes	Coutrot, Francois; Michon, Vincent; "A Single Conditional Access System for Satellite-Cable and Terrestrial TV" IEEE Transactions on Consumer Electronics, Vol. 35, No. 3, Aug. 1989
Y	Yes	"ISO 8583: Financial transaction card originated messages - Interchange message specifications", ISO, Dec. 15, 1993
Y	Yes	Harty, Kieran; Ho, Linda; "Case Study: The VISA Transaction Processing System", May 30, 1988
Y	Yes	U.S. 4,584,639; Apr. 22, 1986
	Yes	Denning, Dorothy E.; "Secure Personal Computing in an Insecure Network", Comm. of the ACM, Vol. 22, No. 8, Aug. 1979
	Yes	Muftic, Sead; "Security Mechnisms for Computer Networks", Computer Communications and Networking, 1989
Y	Yes	Kim, Gene H.; Spafford, Eugene H.; "The Design and Implementation of Tripwire: A File System Integrity Checker", COAST Laboratory, Purdue University, Nov. 19, 1993
Y	Yes	Choudhury, Abhijit K.; Maxemchuk, Nicholas F.; Paul, Sanjoy; Schulzrinne, Henning G.; "Copyright Protection for Electronic Publishing Over Computer Networks", IEEE Network, May/Jun., 1995
	Yes	Denning, Dorothy E.R.; Cryptorgraphy and Data Security, Addison-Wesley Publishing Company, 1982, Reprinted with corrections, Jan. 1983
	Yes	Hellman; "Multi-user Cryptographic Techniques".
	Yes	Diffie, Whitfield; Hellman, Martin E; "New Directions in Cryptography", Stanford University, 1976
Y	Yes	Kohl, J.; Neuman, C.; "The Kerberos Network Authentication Service (V5)", Network Working Group RFC 1510, Sep. 1993
	Yes	Diffie, Whitfield; van Oorschot, Paul C.; Weiner, Michael J.; "Authentication and Authenticated Key Exchanges", Sun Microsystems and Bell-Northern Research, Mar. 6, 1992
	Yes	Diffie, Whitfield; "The First Ten Years of Public-Key Cryptography", Proceedings of the IEEE, Vol. 76, No. 5, May, 1988
	Yes	Kohnfelder, Loren M.; "Towards a Practical Public-Key Cryptosystem", May, 1978
	Yes	Kaliski, Jr., Burton S.; "A Layman's Guide to a Subset of ASN.1, BER, and DER", RSA Laboratories Technical Note, 1991, Revised Nov. 1, 1993
Y	Yes	"PKCS #7: Cryptographic Message Syntax Standard", RSA Laboratories Technical Note, Ver. 1.5, Revised Nov. 1, 1993
	Yes	Walker, Stephen; "Notes from RSA Data Security Conference", Trusted Information Systems, Jan. 18, 1994
Y	Yes	Tygar, J.D.; Yee, Bennet; "Cryptography: It's Not Just for Electronic Mail Anymore", Carnegie Mellon University Tech. Report CMU-CS-93-107, Mar. 1, 1993
	Yes	U.S. 4,658,093; Apr. 14, 1987
Y	Yes	U.S. 4,405,829; Sep. 20, 1983
Y	Yes	Schneier, Bruce; Applied Cryptography: Protocols, Algorithms, and Source Code in C, John Wiley & Sons, Inc., 1994

* Any possible "Y"s that were missed shall not negate the anticipatory nature of a reference, particularly where there is a chart in Appendix B.   1

APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
Y	Yes	Popek, Gerald J.; Kline, Charles S.; "Encryption and Secure Computer Networks", ACM Computing Surveys, Vol. 11, No. 4, Dec. 1979
	Yes	Diffie, Whitfield; Hellman, Martin E; "New Directions in Cryptography", Stanford University, 1976
	Yes	Castano, Silvana; Fugini, Mariagrazia; Martella, Giancarlo; Samarati, Pierangela; Database Security, ACM Press, 1994
Y	Yes	Thuraisingham, M.B.; "Mandatory Security in Object-Oriented Database Systems", OOPSLA '89 Proceedings, ACM, Oct. 1-6, 1989
Y	Yes	Olivier, Martin S.; von Solms, Sebastiaan H.; "A Taxomonmy for Secure Object-Oriented Databases", ACM Transactions on Database Systems, Vol. 19, No. 1, Mar. 1994
Y	Yes	Olivier, M.S.; von Solms, S.H.; "Building a Secure Database Using Self-Protecting Objects", Computers & Security, Vol. 11, No. 3, 1992
Y	Yes	Olivier, M.S.; von Solms, S.H.; "DISCO: A Discretionary Security Model for Object-oriented Databases", IT Security: The Need for International Cooperation, Elsevier Science Publishers B.V., 1992
Y	Yes	Oliver, Martin S.; "Secure Object-oriented Databases", Thesis for the degree of Doctor of Philosophy in Computer Science, Rand Afrikaans University, Dec. 1991
	Yes	R. Ahad, et al.; IRIS, 1992
Y	Yes	ORION l.k.a. ITASCA, MCC-Austin TX & Itasca Corp., 1985-1995
Y	Yes	Olivier, Martin S.; SECDB, 1990-1995
Y	Yes	"THOR: A Distributed Object-Oriented Database System", MIT
Y	Yes	Millen, Jonathan K.; Lunt, Teresa F.; "Security for Object-Oriented Database Systems", IEEE 0-8186-2825-1; 1992
	Yes	Choy, D.M. et al.; "A Digital Library System for Periodicals Distribution", May 1996
Y	Yes	Mathy, Laurent; "Features of The ACCOPI Multimedia Transport Service", Lecture Notes in Computer Science, No.1045, Proc. Of European Workshop IDMS'96, Mar. 1996; "Access Control and COpyright Protection for Images Security Technology for Graphics and Communication Systems - RACE M1005: ACCOPI", webpage, Security Projects at Fraunhofer-IGD, 2002; ACCOPI RACE Project M1005 Warning of ACCOPI web pages removal, UCL Laboratoire de telecommunications et teledetection
Y	Yes	"The Amide Products" web page; "Forum on Technology-Based Intellectual Property Management - Electronic Commerce for Content", IMA Intellectual Property Proceedings, Vol. 2, Jun. 1996
Y	Yes	Van Slype, Georges; "Natural Language Version of the generic CITED model -- Vol. I: Presentation of the generic model, ver. 3.0"; and "Vol. II: CITED usage monitoring system design for computer based applications, ver. 1.0", Project 5469, The CITED Consortium, Sep. 6, 1993

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Anticipates	Renders Obvious	Description
Y	Yes	"Technological Strategies for Protecting Intellectual Property in the Networked Multimedia Environment", IMA Intellectual Property Proceedings, Vol. 1, Issue 1, Jan. 1994
Y	Yes	COPICAT - 8195: "Copyright Ownership Projection in Computer-Assisted Training", ESPRIT, Dec. 1993; Kelman, Alistair; "Electronic Copyright Management: Possibilities and Problems", Scientists for Labor Presentation, Nov. 14, 1996
Y	Yes	Griswold, Gary N.; "A Method for Protecting Copyright on Networks", IMA Intellectual Property Proceedings, Vol. 1, Issue 1, Jan. 1994
	Yes	Erickson, John S.; "A Copyright Management System for Networked Interactive Multimedia", Proceedings of the 1995 Dartmouth Institute for Advanced Graduate Studies, 1995
	Yes	Burns, Christopher; "AAP Draft: Local Access and Usage Controls", Association of American Publishers Report, Apr. 13, 1995
Y	Yes	Choudhury, A.K.; Maxenchuk, N.F.; Paul, S.; Schulzrinne, H.G.; "Copyright Protection for Electronic Publishing over Computer Networks", Submitted to IEEE Network Magazine, Jun. 1994
	Yes	Wayner, Peter; Digital Copyright Protection, Academic Press, 1997
	Yes	"Cryptolope Containers Technology: A White Paper", IBM InfoMarket Business Development Group
	Yes	"Digital Rights Enforcement and Management: SuperDistribution of Cryptolopes", IBM
	Yes	Kaplan, Marc A.; "IBM Cryptolopes, SuperDistribution and Digital Rights Management", IBM, Dec. 30, 1996
	Yes	IP Workshop - CUPID: "Protocols and Services (ver. 1): An Architectural Overview", CNI, last update Nov. 20, 1997
Y	Yes	Patent Application EP 0 567 800 A1; Nov. 3, 1993
Y	Yes	Sibert, Olin; Bernstein, David; Van Wie, David; "The DigiBox: A Self-Protecting Container for Information Commerce", First USENIX Workshop on Electronic Commerce, Jul. 11-12, 1995
Y	Yes	Willett, Shawn; "Metered PCs: Is your system watching you?; Wave Systems beta tests new technology", IDG Communications, Inc. InfoWorld, May 2, 1994
Y	Yes	Weber, Robert; "Metering Technologies for Digital Intellectual Property - A Report to the International Federation of Reproduction Rights Organisations", International Federation of Reproduction on Rights Organisations, Northeast Consulting Resources, Inc., Oct. 1994
Y	Yes	TULIP Final Report, ISBN 0-444-82540-1, 1991, revised Sep. 18, 1996
	Yes	U.S. 5,634,012; May 27, 1997
	Yes	U.S. 5,715,403; Feb. 3, 1998
	Yes	U.S. 5,845,281; Dec. 1, 1998 (For Priority, Feb. 1, 1995)
Y	Yes	Brin, Sergey; Davis, James; Garcia-Molina, Hector; "Copy Detection Mechanism for Digital Documents", Stanford University
Y	Yes	Weber, Robert; "Digital Rights Management Technologies - A Report to the International Federation of Reproduction Rights Organisations", Northeast Consulting Resources, Inc., Oct. 1995

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	Erickson, John S.; "Rights Management Through Enhanced Attribution", Presented at INET 96 Proceedings, Jun., 1996
	Yes	White, James E.; "Telescript: The Foundation for the Electronic Marketplace", Ver. 5.0, General Magic, Inc., Nov. 30, 1993
	Yes	Ketchpel, Steve P.; Garcia-Molina, Hector; Paepcke, Andreas; "Shopping Models: A Flexible Architecture for Information Commerce", Stanford University
	Yes	Lagoze, Carl; "A Secure Repository Design for Digital Libraries", D-Lib Magazine, Dec. 1995
Y	Yes	"Introduction to Smart Cards v. 1.0", Gemplus Card International, Mar. 21, 1991
	Yes	Abadi, M.; Burrows, M.; Kaufman, C.; Lampson, B.; "Authentication and Delegation with Smart-cards", Digital Equipment Corporation
Y.	Yes	Tygar, J.D.; Yee, Bennet; "Dyad: A System for Using Physically Secure Coprocessors", IMA Intellectual Property Project Proceedings, Vol. 1, Issue 1, Jan. 1994
	Yes	St. Johns, M.; "Draft Revised IP Security Option", Network Working Group, RFC 1038, Jan. 1988
	Yes	Galvin, J.; McCloghrie, K.; Davin, J.; "SNMP Security Protocols", Network Working Group RFC 1352, Jul., 1992
	Yes	U.S. 5,163,091; Nov. 10, 1992
	Yes	U.S. 5,355,474; Oct. 11 1994
Y	Yes	U.S. 5,678,170; Oct. 14, 1997
	Yes	U.S. 5,765,152; Jun. 9, 1998
	Yes	Shear, Victor; "Solutions for CD-ROM Pricing and Data Security Problems"
	Yes	Williams, Tony; "Microsoft Object Strategy", Microsoft PowerPoint presentation, 1990
Y	Yes	"OLE 2.0 Draft Content: Object Linking & Embedding", Microsoft, Jun. 5, 1991
	Yes	"Multimedia System Services Ver. 1.0", Hewlett-Packard, IBM, & SunSoft, 1993
	Yes	Draft "Request for Technology: Multimedia System Services", Ver. 1.1, Interactive Multimedia Association Compatibility Project, Oct. 16, 1992
	Yes	"Request for Technology: Multimedia System Services", Ver. 2.0, Interactive Multimedia Association Compatibility Project, Nov. 9, 1992
	Yes	Wobber, Edward; Abadi, Martin; Burrows, Mike; Lampson, Butler; "Authentication in the Taos Operating System", Digital Equipment Corporation, Dec. 10, 1993
	Yes	Custer, Helen; Inside Windows NT, Microsoft Press, pages 26-42 and 329-330, 1993
Y	Yes	Dynamic linking of SunOS
Y	Yes	Blaze, Matt, "A Cryptographic File System for Unix", preprint of paper to be presented at First ACM Conference on Communications and Computing Security, Nov. 3-5, 1993
	Yes	Gamble, Todd; "Implementing Execution Controls in Unix", USENIX Association, Proceedings of the Seventh Systems Administration Conference (LISA VII), Nov. 1-5, 1993

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
Y	Yes	Garfinkel, Simson; Spafford, Gene; Practical Unix Security, O'Reilly & Associates, Inc., 1994
	Yes	Blaze, Matt; Ioannidis, John; "The Architecture and Implementation of Network-Layer Security Under Unix", Columbia University and AT&T Bell Laboratories, 1994
	Yes	Sandhu, Ravi S.; "The Typed Access Matrix Model", Proceedings of IEEE Symposium on Security & Privacy, May 4-6, 1992
	Yes	Curry, David A.; Unix System Security: A Guide for Users and System Administrators, Addison-Wesley, 1992
Y	Yes	FreeBSD System manager's Manual "LDCONFIG", Oct. 3, 1993
	Yes	"Requirements for the Software License Management System", System Management Work Group, Rev. 3, Unix International, Jul. 23, 1992
Y	Yes	Film canister
Y	Yes	Safety deposit box
	Yes	Central Point Anti-Virus, Central Point Software, 1993
	Yes	Symantec Anti-Virus for Macintosh (a.k.a. SAM), Symantec, 1993
Y	Yes	VirusCheck and VirusScan, McAfee, 1993
	Yes	Goodman, Bill; Compactor Pro
	Yes	Enigma V.25
	Yes	StuffIt Deluxe v.1.5, v.3.0, v.3.5, Aladdin Systems, 1988-1994
Y	Yes	Harris, Jed; Ruben, Ira; "Bento Specification", Rev. 1.0d5, Apple Computer, Jul. 15, 1993
	Yes	Koenig, Andrew; "Automatic Software Distribution", USENIX Summer Conference Proceedings, Jun. 12-15, 1984
	Yes	Microsoft Internet Explorer v.2.0
	Yes	Think C: Object-Oriented Programming Manual, Symantec Corporation, 1989
	Yes	Think Pascal User Manual, Symantec Corporation, 1990
Y	Yes	Mori, Ryoichi; Kawahara, Masaji; "Superdistribution: The Concept and the Architecture", The Transactions of the IEICE, Vol. E 73, No. 7, Jul., 1990
	Yes	Epstein, Jeremy; Shugerman, Marvin; "A Trusted X Window System Server for Trusted Mach", USENIX Association, Mach Workshop, Aug. 30, 1990
	Yes	McCollum, Catherine J.; Messing, Judith R.; Notargiacomo, LouAnna; "Beyond the Pale of MAC and DAC -- Defining New Forms of Access Control", IEEE, 1990
	Yes	Abrams, Marshall D.; "Renewed Understanding of Access Control Policies", Proceedings of the 16th Computing National Security Conference, 1993
	Yes	Blaze, Matt; Feigenbaum, Joan; Lacy, Jack; "Decentralized Trust Management", Proc. IEEE Conference on Security and Privacy, May 1996
Y	Yes	Chaum, David; "Achieving Electronic Privacy", Scientific American, Aug. 1992
	Yes	UniverCD: The interactive, online library of product information from Cisco Systems, Cisco Systems, 1993
Y	Yes	DCE
	Yes	Fine, Todd; Minear, Spencer E.; "Assuring Distributed Trusted Mach", Secure Computing Corporation
	Yes	U.S. 5,412,717; May 2, 1995

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	Fugini, M.G.; Zicari, R.; "Authorization and Access Control in the Office-Net System", Computer Security in the Age of Information, IFIP, 1989
	Yes	Abadi, M.; Burros, M.; Lampson, B.; Plotkin, G.; "A Calculus for Access Control in Distributed Systems", Digital Equipment Corporation, Feb. 28, 1991, revised Aug. 28, 1991
Y	Yes	Lampson, Butler; Abadi, Martin; Burrows, Michael; Wobber, Edward; "Authentication in Distributed Systems: Theory and Practice", Digital Equipment Corporation, 1992
	Yes	Rivest, Ronald L.; Lampson, Butler; "SDSI - A Simple Distributed Security Infrastructure", MIT and Microsoft Corporation, Apr. 30, 1996
	Yes	Thompson, Victoria P.; Wentz, F. Stan; "A Concept for Certification of an Army MLS Management Information System", Proceedings of the 16th National Computer Security Conference, Sep. 20-23, 1993
	Yes	Frederick, Keith P.; "Certification and Accreditation Approach", Air Force Cryptologic Support Center (OL-FP)
Y	Yes	PCT Application WO 96/27155; Published Sep. 6, 1996
	Yes	U.S. 5,910,987; Jun. 8, 1999
Y	Yes	Rozenblit, Moshe; "Secure Software Distribution", IEEE 0-7803-1811-0/94, 1994
Y	Yes	Stefik, Mark; Internet Dreams: Archetypes, Myths, and Metaphors, "Letting Loose the Light: Igniting Commerce in Electronic Publication", The MIT Press, 1996
	Yes	AT&T PersonaLink, [Before Feb. 13, 1995]
	Yes	Neuman, B. Clifford; "Proxy-Based Authorization and Accounting for Distributed Systems", Proceedings of the 13th Int'l Conference on Distributed Computing Systems, May 1993
Y	Yes	Tygar, J.D.; Yee, Bennet S.; (R. Rashid, ed.); "Strongbox: A System for Self-Securing Programs"
	Yes	Yee, Bennet; Tygar, J.D.; "Secure Coprocessors in Electronic Commerce Applications", Proceedings of the First USENIX Workshop on Electronic Commerce, Jul. 1995
	Yes	U.S. 4,278,837; Jul. 14, 1981
	Yes	U.S. 3,806,874; Apr. 23, 1974
Y	Yes	U.S. 4,748,561; May 31, 1988
Y	Yes	U.S. 4,796,220; Jan. 3, 1989
	Yes	U.S. 4,817,140; Mar. 28, 1989
Y	Yes	U.S. 4,866,769; Sep. 12, 1989
Y	Yes	U.S. 5,014,234; May 7, 1991
Y	Yes	U.S. 5,113,518; May 12, 1992
	Yes	U.S. 5,204,897; Apr. 20, 1993
	Yes	U.S. 5,218,605; Jun. 8, 1993
Y	Yes	U.S. 5,260,999; Nov. 9, 1993
Y	Yes	U.S. 5,291,598; Mar. 1, 1994
Y	Yes	U.S. 5,337,357; Aug. 9, 1994
	Yes	U.S. 5,421,006; May 30, 1995
	Yes	U.S. 5,438,508; Aug. 1, 1995
	Yes	U.S. 5,490,216; Feb. 6, 1996
Y	Yes	U.S. 5,603,031; Feb. 11, 1997

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	U.S. 5,692,047; Nov. 25, 1997
	Yes	U.S. 5,724,425; Mar. 3, 1998
	Yes	U.S. 5,940,504; Aug. 17, 1999
	Yes	U.S. 5,978,484; Nov. 2, 1999
	Yes	U.S. 6,016,393; Jan. 18, 2000
	Yes	Woo, Thomas Y.C.; Lam, Siman S.; "A Framework for Distributed Authorization", 1st Conf. Computer & Comm. Security, ACM, Nov., 1993
	Yes	Sandhu, Ravi S.; Suri, Gurpreet S.; "Implementation Considerations for the Typed Access Matrix Model in a Distributed Environment", Proc. Of the 15th National Computer Security Conference, Oct. 1992
	Yes	O'Conner, MaryAnn; "New Distribution Options for Electonic Publishers: iOpener Data Encryption and Metering System for CD-ROM Use", CD-ROM Professional, Vol 7, No. 2, ISSN 1409-0833, Mar. 1994
	Yes	Herzberg, A; Karmi, G; "On Software Protection", Proceedings of the 4th Jerusalem Conference on Information Technology (JCIT), IEE Computer Society Press, Apr. 1984
	Yes	Smith, Mary Grace; Weber, Robert; "A New Set of Rules for Information Commerce: Rights-Protection Technologies and Personalized-Information Comerce Will Affect All Knowledge Workers", CommunicationsWeek, Nov. 6, 1995
Y	Yes	DOD "Rainbow Series"
	Yes	Rosenthal, Doug; "EINet: A Secure, Open Network for Electronic Commerce", IEEE, 1994
Y	Yes	Patent Application EP 0 367 700 A2; May 9, 1990
Y	Yes	Hauser, R.; Bauknecht, K.; "LTTP Protection – A Pragmatic Approach to Licensing", Institut fur Informatik, Universitat Zurich, Jan. 13, 1994
	Yes	"Multimedia Mixed Object Envelopes Supporting a Graduated Fee Scheme via Encryption"; IBM Technical Disclosure Bulletin, Vol. 37, No. 3, Mar. 1994
	Yes	Cox, Brad; "No Silver Bullet Revisited", American Programmer Journal, Nov. 1995
	Yes	"Privacy and the NII: Safeguarding Telecommunications-Related Personal Information", U.S. Dept. of Commerce, Oct. 1995
	Yes	Joseph Ebersole, Protecting Intellectual Property Rights on the Information Superhighways, Mar. 1994
Y	Yes	Herzberg, Amir; Printer, Shlomit S.; "Public Protection of Software", ACM Transactions on Computer Systems, Vol. 5, No. 4, Nov. 1987
	Yes	Hickman, Kipp E.B.; SSL 2.0 Protocol Specification
	Yes	Gosler, James; "Software Protection: Myth or Reality", Lecture Notes in Computer Science, Advances in Cryptology - Crypto '85 Proceedings, 1985
	Yes	Aucsmith, David; "Tamper Resistent Software: An Implementation", IAL
	Yes	U.S. Patent No. 5,671,279; Sept. 23, 1997
Y	Yes	Kahn, Robert; Wilensky, Robert; "A Framework for Distributed Digital Object Services", Corporation for National Research Initiatives, May 13, 1995
Y	Yes	Gasser, Morrie; Goldstein, Andy; Kaufman, Charlie; Lampson, B; "The Digital Distributed System Security Architecture", Proceedings of 1989 National Computer Security Conference, 1989

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APPENDIX OF PRIOR ART*

Anticipate	Renders Obvious	Description
Y	Yes	Neuman, B. Clifford; Ts'o, Theodore; "Kerberos: An Authentication Service for Computer Networks", IEEE Communications Magazine, Sep. 1994
	Yes	Reiher, Peter; Page, Jr., Thomas; Popek, Gerald; Cook, Jeff; Crocker, Stephen; "Truffles -- Secure File Sharing With Minimal System Administrator Intervention", UCLA, Trusted Information Systems
Y	Yes	Reiher, Peter; Page, Jr., Thomas; Popek, Gerald; Cook, Jeff; Crocker, Stephen; "Truffles -- A Secure Service for Widespread File Sharing", UCLA, Trusted Information Systems
Y	Yes	"ISO, Open Systems Interconnection: Security Architecture, ISO 7498/1", 1988
Y	Yes	"ISO, Open Systems Interconnection: Security Architecture, ISO 7498/2", ISO, 1988
	Yes	U.S. 5,222,134; Jun. 22, 1993
	Yes	Rindfrey, Jochen; "Security in the World Wide Web", Fraunhofer Institute for Computer Graphics, Dec. 1996
	Yes	Finin, Tim; Fritzson, Rich; McKay, Don; "A Language and Protocol to Support Intelligent Agent Interoperability", Proceedings of the CE & CALS Washington '92 Conference, Apr. 1992
Y	Yes	Winslet, Marianne; Smith, Kenneth; Qian, Xiaolei; "Formal Query Languages for Secure Relational Databases", ACM Transactions on Database Systems, Vol. 19, No. 4, Dec. 1994
	Yes	Jones, V.E.; Ching, N.; Winslett, M.; "Credentials for Privacy and Interoperation", University of Illinois at Urbana-Champaign
	Yes	Greenwald, Steven J.; Newman-Wolfe, Richard E.; "The Distributed Compartment Model for Resource Management and Access Control", Technical Report Number TR94-035, The University of Florida, Oct. 1994
Y	Yes	Moffett, Jonathan D.; "Delegation of Authority Using Domain-Based Access Rules", thesis, Imperial College of Science, Technology & Medicine, University of London, Jul., 1990
Y	Yes	Lagoze, Carl; McGrath, Robert; Overly, Ed; Yeager, Nancy; "A Design for Inter-Operable Secure Object Stores (ISOS)", Cornell University, NCSA, CNRI, Nov. 7, 1995
	Yes	Aharonian, Gregory; "Software Patents - Relative Comparison of EPO/PTO/JPO Software Searching Capabilities", Source Translation & Optimization
	Yes	Gaster, Jens L.; "Authors' Rights and Neighbouring Rights in the Information Society", DG XV/E/4, European Commission
	Yes	"Europe and The Global Information Society Recommendations to the European Council", Bamgemann Report, www.medicif.org web pages, Global Information Society, May, 26, 1994
	Yes	Bernstein, David; Lenowitz, Erwin; "Copyrights, Distribution Chains, Integrity, and Privacy: The Need for a Standards-Based Solution", Electronic Publishing Resources
	Yes	Rubin, A.D.; Honeyman, P.; "Long Running Jobs in an Authenticated Environment", CITI Technical Report 93-1, Center for Information Technology Integration, Mar. 29, 1993
	Yes	Sammer, Peter; Ausserhofer, Andreas; "New Tools for the Internet", Joanneum Research, Graz University of Technology

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	Eizenberg, Gerard, "Contribution of Information Technology Security to Intellectual Property Protection", CERT-DERI
	Yes	Antonelli, C.J.; Doster, W.A.; Honeyman, P.; "Access Control in a Workstation-Based Distributed Computing Environment", CITI Technical Report 90-2, Jul. 17, 1990
	Yes	Lord, S.P.; Pope, N.H.; Stepney, Susan; "Access Management in Multi-Administration Networks", IEE 2nd International Conference on Secure Communication Systems, 1986
	Yes	Stepney, Susan; Lord, Stephen P.; "Formal Specification of an Access Control System", Software-Practice and Experience, Vol 17(9), 1987
	Yes	Brunnstein, Klaus; Sint, Peter P.; "Intellectual Property Rights and New Technologies", Proceedings of the KnowRight'95 Conference, Aug. 1995
	Yes	Rubin, A.D.; Honeyman, P.; "Formal Methods for the Analysis of Authentication Protocols CITI Technical Report 93-7", Center for Information Technology Integration, Nov. 8, 1993
	Yes	Lexis/WestLaw
Y	Yes	U.S. 6,135,646; Oct. 24, 2000
	Yes	Bishop, Matt; "Privacy-Enhanced Electronic Mail", Privacy and Security Researh Group, IAB
Y	Yes	Kim, Won; Ballou, Nat; Chou, Hong-Tai; Garza, Jorge F.; Woelk, Darrell; "Features of the ORION Object-Oriented Database System"
	Yes	"Key Management Using ANSI X9.17", Federal Information Processing Standards Publication 171, U.S. Department of Commerce, Apr. 27, 1992
	Yes	"S/PAY: RSA's Developer's Suite for Secure Electronic Transactions (SET)", RSA Data Security, Inc., 1997
	Yes	Perlman, Bill; "A Working Anti-Taping System for Cable Pay-Per-View", IEEE Trans. On Consumer Electronics, Vol. 35, No.3, Aug. 1989
Y	Yes	Organick, Elliott I.; "The Multics System: An Examination of Its Structure", MIT Press, 1972
Y	Yes	Cina Jr., Vincent J.; White, Star R.; Comerford, Liam; "ABYSS: A Basic Yorktown Security System PC Software Asset Protection Concepts", IBM Research Report Number RC 12401, IBM Thomas J. Watson Research Center, Dec. 18, 1986
Y	Yes	White, Steve R.; Comerford, Liam; "ABYSS: An Architecture for Software Protection", IEEE Transactions on Software Engineering, Vol. 16, No. 6, Jun. 1990
Y	Yes	Davies, D.W.; Price, W.L.; Security for Computer Networks, John Wiley & Sons, 1984
	Yes	"MSDN - INF: LAN Manager 2,1 Server Autotuning (Part 2)", PSS ID Number Q80078, Microsoft, Feb. 1993
Y	Yes	"MSDN - License Service Application Programming Interface", API Specification v1.02, Microsoft, Jan. 1993

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	"International Infrastructure Standards Panel: IISP Need #31 - Containers or Secure Packaging; IISP Need #32 - Authentication of Content; IISP Need #33 - Control Enforcement; IISP Need #34 - Billing and Payment; IISP Need #35 - Reporting" ANSI Online, Sen. 18, 1995
Y	Yes	"Cryptographic API Specification", Version 0.6, Microsoft, Mar. 1995
	Yes	Everett, David B.; "Smart Card Tutorial - Part 1", Sep. 1992
Y	Yes	Paradinas, Pierre; Vandewalle, Jean-Jacques; "New Directions for Integrated Circuit Cards Operating Systems"
Y	Yes	Hauser, Ralf; "Control of Information Distribution and Access", Dissertation Der Wirtschaftswissenschaftlichen Fakultat Der Universitat Zurich, May 31, 1995
	Yes	Rindfrey, Jochen; "Towards an Equitable System for Access Control and Copyright Protection in Broadcast Image Services: The Equicrypt Approach", Fraunhofer Institute for Computer Graphics
	Yes	Wells, Rob; Odyssey of Plastic Purchase: 20-Second Round-Trip, Associated Press, Dec. 1993
	Yes	Payment Systems: Strategic Choices for the Future, Hitachi Research Institute; Institute of Advanced Business Systems, Hitachi, Ltd., 1993
	Yes	"EFT Network Data Book - 1993 Edition", Bank Network News, Vol. 11, No. 13, Nov. 1992
	Yes	"American National Standard: Specification for Financial Message Exchange Between Card Acceptor and Acquirer, X9.15", American Banker's Association, 1990
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Y	Yes	MSDN Issue: Summer 1992; Vol. No.: 0 (Beta); 1 Disk, Microsoft, 1992
Y	Yes	MSDN Issue: Sep. 1992; Vol. No.: 1; 1 Disk, Microsoft, Sep. 1992
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Y	Yes	MSDN Issue: Apr. 1993; Vol. No. 3; 1 Disk, Microsoft, Apr. 1993
Y	Yes	MSDN Issue: Summer 1993; Vol. No. 4; 1 Disk, Microsoft, Jul. 1993
Y	Yes	MSDN Issue: Fall 1993; Vol. No. 5; 1 Disk, Microsoft, Oct. 1993
Y	Yes	MSDN Issue: Winter 1994; Vol. No. 6; 1 Disk, Microsoft, Jan. 1994
Y	Yes	MSDN Issue: Apr. 1994; Vol. No. 7; 1 Disk, Microsoft, Apr. 1994
Y	Yes	MSDN Issue: Jul. 1994; Vol. 8; 1 Disk, Microsoft, Jul. 1994
Y	Yes	MSDN Issue: Oct. 1994; Vol. 9; 1 Disk, Microsoft, Oct. 1994
Y	Yes	MSDN Issue: Jan 1995; Vol. 10; 1 Disk, Microsoft, Jan. 1995
Y	Yes	MSDN Issue: Apr. 1995; Vol. 11; 1 Disk, Microsoft, Apr. 1995
Y	Yes	MSDN Issue: Jul. 1995; Vol. 12; 1 Disk, Microsoft, Jul. 1995
Y	Yes	MSDN Issue: Oct. 1995; Vol. 13; 1 Disk, Microsoft, Oct. 1995
Y	Yes	MSDN Issue: Jan 1996; Vol. 14; 2 Disks, Microsoft, Jan. 1996
Y	Yes	MSDN Issue: Apr. 1996; Vol. 15; 2 Disks, Microsoft, Apr. 1996
Y	Yes	MSDN Issue: Jul. 1996; Vol. 16; 1 Disk, Microsoft, Jul. 1996
Y	Yes	MSDN Issue: Oct. 1996; Vol. 17; 2 Disks, Microsoft, Oct. 1996
Y	Yes	MSDN Issue: Jan 1997; Vol. 18; 2 Disks, Microsoft, Jan. 1997
Y	Yes	MSDN Issue: 16-Bit Archive 1997; Vol. NA; 1 Disk, Microsoft, Jan. 1997

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Anticipates	Renders Obvious	Description
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Y	Yes	MSDN Issue: Jul. 1997; Vol. No. 21; 2 Disks, Microsoft, Jul. 1997
Y	Yes	MSDN Issue: Oct. 1997; Vol. No. 24; 2 Disks, Microsoft, Oct. 1997
Y	Yes	MSDN Issue: Visual Studio 1997; Vol. No. 191; 1 Disk, Microsoft, 1997
Y	Yes	MSDN Issue: Jan. 1998; Vol. No. 27; 2 Disks, Microsoft, Jan. 1998
Y	Yes	MSDN Issue: Apr. 1998; Vol. No. 30; 2 Disks, Microsoft, Apr. 1998
Y	Yes	MSDN Issue: Jul. 1998; Vol. No. 33; 3 Disks, Microsoft, Jul. 1998
Y	Yes	MSDN Issue: Oct. 1998; Vol. No.: None; 3 Disks, Microsoft, Oct. 1998
Y	Yes	MSDN Issue: Jan 1999; Vol. No.: None; 3 Disks, Microsoft, Jan. 1999
Y	Yes	MSDN Issue: Apr. 1999; Vol. No.: None; 3 Disks, Microsoft, Apr. 1999
Y	Yes	MSDN Issue: Jul. 1999; Vol. No.: None; 3 Disks, Microsoft, Jul. 1999
Y	Yes	MSDN Issue: Oct. 1999; Vol. No.: None; 3 Disks, Microsoft, Oct. 1999
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Y	Yes	CD Jukebox
	Yes	U.S. Patent No. 4,926,480; May 15, 1990
	Yes	U.S. Patent No. 4,529,870; Jul. 16, 1985
	Yes	Meyer, Carl H.; Matyas, Stephen M.; Cryptography: A New Dimension in Computer Security, John Wiley & Sons, New York, 1982
	Yes	"Interchange Message Specification for Debit and Credit Card Message Exchange Among Financial Institutions", American National Standard, Accredited Standards Committee X9-Financial Services Committee, ANSI X9.2-1988, American Bankers Association, May 16, 1988
Y	Yes	Excerpts from Jul. 1993 MSDN disks, Jul. 1993.
Y	Yes	Cox, Benjamin; Tygar, J.D.; Sirbu, Marvin; "NetBill Security and Transaction Protocol", Carnegie Mellon University
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Y	Yes	"CITED Final Report: A Guide to CITED Documentation", ESPRIT, Project 5469, ISBN 0-7123-2115-2, The CITED Consortium, Sep. 1994
Y	Yes	Boisson, Jean-Francois; "1 - Business Perspectives and Requirements, 2 - The CITED Project: keys and knowledge", CITED 5469
Y	Yes	Van Slype, Georges; "Knowledge Economy: future trends", CITED 5469
Y	Yes	Boisson, Jean-Francois; "Software components: deliverable Trial Offer", CITED 5469
Y	Yes	Van Slype, Georges; "The CITED approach, Ver. 4.0", ESPRIT II, Project 5469, The CITED Consortium, Apr. 20, 1994
Y	Yes	Moens, Jan; "Report on the users requirements, Ver. 1.0", ESPRIT II, Project 5469, The CITED Consortium, Nov. 27, 1991
Y	Yes	Schulze, Dr. J.; "Case of application of the generic CITED Model to the CITEDisation in the software distribution process", ESPRIT II, Project , Jan. 12, 1993
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Y	Yes	Nguyen, Thanh; Saint Etienne, Patricia Louise (SAGEM); "Guidelines for Validation of a CITED System", CITED 5469, SA-21-40-003, Jul. 4, 1994
Y	Yes	Van Slype, Georges; "The future of CITED: a feasibility study, Ver. 1.1 - Vol. I: Summary report and recommendations", ESPRIT II, Project 5469, The CITED Consortium, Mar. 28, 1994
Y	Yes	Van Slype, Georges; "The future of CITED: a feasibility study, Ver. 1.1 - Vol. III: Draft CITED interchange formats", ESPRIT II, Project 5469, The CITED Consortium, Mar. 28, 1994
Y	Yes	"CITED: Copyright in Transmitted Electronic Documents, Special Interest Group", CITED, Meeting, Heathrow, Sep. 22, 1993
Y	Yes	Miscellaneous letters from Georges Van Slype at Bureau Van Dijk, Mar. 30, 1995
Y	Yes	Pijnenborg, Mari F.J.; "auteursrecht en de digitale bibliotheek", 195 Open, Jan. 37, 1995
Y	Yes	Miscellaneous letters from Georges Van Slype at Bureau Van Dijk, Feb. 13, 1995, Nov. 2, 1994
Y	Yes	Van Slype, Georges; "PL4 RACE/ACCOPI Workshop on Conditional Access and Copyright Protection", ESPRIT II, Project 5469, The CITED Consortium, Nov. 9, 1994
Y	Yes	Miscellaneous letters from G. Van Slype at Bureau Van Dijk, Sep. 12, 1994, Sep. 1994, May 11, 1994, May 10, 1994, May 6, 1994, May 4, 1994, Apr. 21, 1994, Apr. 20, 1994
Y	Yes	Letter re: ESPRIT III – Project 5469 (CITED) from A. Stajano at Commission of the European Communities, Oct. 7, 1993
Y	Yes	ESPRIT Project: 5469: Contract Amendment Number: 2; Commission of the European Communities, Sep. 16, 1993
Y	Yes	Miscellaneous letters from George Van Slype at Bureau Van Dijk, Apr. 19, 1994, Apr. 18, 1994, Apr. 11, 1994, Apr. 6, 1994
Y	Yes	"The Future of Cited: A Feasibility Study", ESPRIT II, Project 5469, The CITED Consortium Apr. 15, 1994
Y	Yes	Miscellaneous letters from Bureau Van Dijk, Mar. 30, 1994, Mar. 24, 1994, Feb. 10, 1994, Feb. 10, 1994
Y	Yes	Handwritten note re: GVS and AJL, Mar. 2, 1994
Y	Yes	Miscellaneous letters from Bureau Van Dijk, Feb. 9, 1994, Jan. 27, 1994, Jan. 19, 1994, Jan. 12, 1994, Dec. 22, 1993, Nov. 30, 1993, Nov. 22, 1993, Dec. 6, 1993, Nov. 16, 1993, Oct. 15, 1993, Oct. 7, 1993, Oct. 4, 1993, Sep. 20, 1993, Sep. 7, 1993, May 19, 1993, Oct. 13, 1993
Y	Yes	Bureau Van Dijk Management Report for Task 4.5: Feasibility Study of the Cited Agency, 1992-1993
Y	Yes	Bureau van Dijk: Gestion des contrats; 497C C.C.E. : CITED (SUITE), Feb. 1993
Y	Yes	"CITED: Preparation of the CITED model functional requirements specifications – Discussion paper (revision 1)", Bureau Van Dijk, Jan. 16, 1991

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Anticipates	Renders Obvious	Description
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Y	Yes	"CITED: Preparation of the CITED Model Functional Requirements Specifications – Reports of the interviews with five CITED Partners" (Partners: Sagem, Telesystemes, NTE, Elsevier, Oxford University Press), Bureau Van Dijk, Apr. 5, 1991
Y	Yes	"CITED: Preparation of the CITED Model Functional Requirements Specifications – Reports of the interviews with Seven International Organizations: EBU, ECMA, ELDA, IFPI, IFTC, STM, WIPO", Bureau Van Dijk, May 27, 1991
Y	Yes	Van Slype, Georges; Moens, Jan; Vannieuwenhuyse, Lawrence; "The future of CITED: a feasibility study"; ESPRIT II, Project 5469, The CITED Consortium, Nov. 15, 1993
Y	Yes	Van Slype, Georges; "Draft CITED interchange formats, Ver. 1.0", ESPRIT II, Project 5469, The CITED Consortium, Jan. 28, 1994
Y	Yes	Miscellaneous letter from Georges Van Slype at Bureau Van Dijk, Feb. 28, 1994
Y	Yes	Van Slype, Georges; "The future of CITED : a feasibility study, Ver. 1.0 – Vol. I: Summary report and recommendations", ESPRIT II, Project 5469, The CITED Consortium, Feb. 28, 1994
Y	Yes	Van Slype, Georges; Moens, Jan; Vannieuwenhuyse, Laurence; "The future of CITED: a feasibility study, Ver. 1.0 – Vol. II: Full report", ESPRIT II, Project 5469, The CITED Consortium, Feb. 28, 1994
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Y	Yes	Van Slype, Georges; "PL4 RACE/ACCOPI Workshop on Conditional Access and Copyright Protection", ESPRIT II, Project 5469, Presentation of the CITED, Nov. 9, 1994
Y	Yes	Van Slype, Georges; "Natural Language version of the generic CITED model, Ver. 4.2 – Vol. I: Presentation of the generic model", ESPRIT II, Project 5469, The CITED Consortium, May 8, 1995
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	Yes	"PKCS #5: Password-Based Encryption Standard", An RSA Laboratories Technical Note, Ver. 1.5, 1991-1993, Revised Nov. 1, 1993
	Yes	"PKCS #8: Private-Key Information Syntax Standard", An RSA Laboratories Technical Note, Ver. 1.2, 1991-1993, Revised Nov. 1, 1993
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	Yes	"PKCS 12 v1.0: Personal Information Exchange Syntax", RSA Laboratories, Jun. 24, 1999
	Yes	"PKCS #13: Elliptic Curve Cryptography Standard", RSA Security, Jan. 12, 1998
	Yes	"PKCS #15 v1.0: Cryptographic Token Information Format Standard", RSA Laboratories, Apr. 23, 1999
	Yes	U.S. 5,335,346; Aug. 2, 1994
Y	Yes	Garfinkel, Simson; Spafford, Gene; Practical UNIX Security, O'Reilly & Associates, Inc., 1991
Y	Yes	Merkle, Ralph C., "Protocols for Public Key Cryptosystems", IEEE, 1980
	Yes	Kaner, Cem; Falk, Jack; Nguyen, Hung Quoc; Testing Computer Software, Second Edition, Van Nostrand Reinhold, 1988
	Yes	Press, Jim; Bunting, Angela "A New Approach to Cryptographic Facility Design", ICL Mid-Range Systems Division Reading, Berks, UK
Y		US 6,256,668; Jul. 3, 2001
Y		Kim, Gene H.; Spafford, Eugene H.; "Experiences with Tripwire: Using Integrity Checkers for Intrusion Detection", Purdue Technical Report CSD-TR-94-012, Feb. 21, 1994
Y		"Technical Description: Pay-Per-View Copy Protection", Macrovision, Jun. 1994
Y		Reali, Patti; "Copy Protection: The answer to pay per view's prayers?", TVRO Dealer, Dec. 1994
		Swedlow, Tracy; "2000: Interactive Enhanced Television: A Historical and Critical Perspective", Interactive TV Today
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Y		Solomon, A.; "PC Viruses: Detection, Analysis, and Cure", Springer Verlag 1991.
Y		Galaxy, Opcode Systems, 1991-1994
Y		Unix System V & BSD & GNU versions prior to Feb 22, 1996
Y		US 5,673,316; Sep. 30, 1997
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		Hill, Will; Hollan, Jim; "History-Enriched Digital Objects", Computer Graphics and Interactive Media Research Group; Bell Communications Research, 1993
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Anticipates	Renders Obvious	Description
	Yes	InterTrust Solutions for A2b, InterTrust; Competitive Analysis AT&T/a2b music, Jun. 16, 1998; Email from Chris Drost-Hansen re press release: "AT&T Launches A2B Music Trial for Delivering Songs Over the Internet", Business Wire, Nov. 3, 1997; A2b's Recent Press Coverage, 1998
	Yes	ISO 11568-1 & -2: "Key management (retail) - Part 1: Introduction to key management"; and "- Part 2: Key management techniques for symmetric ciphers", ISO, Dec. 1, 1994
	Yes	ISO 13491-1: "Secure cryptographic devices (retail) – Part 1: Concepts, requirements and evaluation methods", ISO, Jun. 15, 1998
	Yes	ISO 8583-2: "Financial transaction card originated messages - Interchange message specifications - Part 2: Application and registration procedures for Institution Identification Codes (IIC)", ISO, Jul. 1, 1998
	Yes	ISO 8583-3: "Financial transaction card originated messages - Interchange message specifications - Part 3: Maintenance procedures for codes", ISO, Jul. 1, 1998
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	Yes	ISO 9807: "Banking and related financial services - Requirements for message authentication (retail)," ISO, Dec. 15, 1991
	Yes	Secure Electronic Transactions; Mastercard and Visa+C345
	Yes	Tanenbaum, Andrew S; van Renesse, Robbert; van Staveren, Hans; Sharp, Gregory J.; Mullender, Sape J.; Jansen, Jack; van Rossum, Guido; "Experiences with the Amoeba Distributed Operating System", Vrije Universiteit and Centrum voor Wiskunde en Informatica
	Yes	Tanenbaum, Andrew S; Mullender, Sape J.; van Renesse, Robbert; "Using Sparse Capabilities in a Distributed Operating System", Vrije Universiteit and Centre for Mathematics and Computer Science
Y	Yes	Tanenbaum, Andrew S; van Renesse, Robbert; van Staveren, Hans; Sharp, Gregory J.; Mullender, Sape J.; Jansen, Jack; van Rossum, Guido; "Amoeba System", Communications of the ACM, Vol. 33, No. 12, Dec. 1990
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	Yes	Landau, Charles R.; "Security in a Secure Capability-Based System", Operating Systems Review, Oct. 1989
	Yes	"Security in KeyKOS"
	Yes	Hardy, Norman; "The Keykos Architecture", Key Logic Document KL028-08, Eighth Edition, Dec. 1990
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Anticipates	Renders Obvious	Description
	Yes	Kim, Gene H.; Spafford, Eugene H.; "Experiences with Tripwire: Using Integrity Checkers for Intrusion Detection", COAST Laboratory, Purdue University, Feb. 22, 1995
	Yes	Blaze, Matt; "Key Management in an Encrypting File System", Proc. Summer 1994 USENIX Technical Conference, Jun. 1994
	Yes	Robinson, D.; Ullmann, R.; "Encoding Header Field for Internet Messages", Network Working Group RFC 1154, Apr. 1990; Rose, M.; McCloghrie, K.; "Structure and Identification of Management Information for TCP/IP-based Internets", Network Working Group RFC 1155, May 1990
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	Yes	"PKCS #1: RSA Encryption Standard", RSA Laboratories Technical Note, Ver. 1.5, Revised Nov. 1, 1993
	Yes	"PKCS #3: Diffie-Hellman Key-Agreement Standard", RSA Laboratories Technical Note, Ver. 1.4, Revised Nov. 1, 1993
	Yes	"PKCS #6: Extended-Certificate Syntax Standard", RSA Laboratories Technical Note, Ver. 1.5, Revised Nov. 1, 1993
	Yes	"PKCS #9: Selected Attribute Types", RSA Laboratories Technical Note, Ver. 1.1, Revised Nov. 1, 1993
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	Yes	Feistel, H.; "Cryptographic Coding for Data-Bank Privacy", IBM document RC 2827, Mar. 18, 1970
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Anticipates	Renders Obvious	Description
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	Yes	"CREANET - Creative Rights European Agency NETwork - Project Profile" information society technologies, edited Feb. 18, 2000
	Yes	"iOpener System Description", National Semiconductor, 1993
	Yes	"iPower Technology" (National Semiconductor marketing brochure)
	Yes	"The Standards Business: Time for Change," European Commission DG111 Espirit Project 5th Consensus Forum, Nov. 3-4, 1998; "ESPIRIT Project 20676 - IMPRIMATUR - Intellectual Multimedia Property Rights Model and Terminology for Universal Reference", IMPRIMATUR Consortium, Oct. 1998; Electronic Reserve Copyright Management System (ERCOMS), International Institute for Electronic Library Research, website updated by Ramsden, Anne, Jul. 22, 1996; Achievements Archive, www.imprimatur.net/ web pages; impramatur news, iMPRIMATUR, Dec. 1998; Baslon, Chris, "The Imprimatur Project"
	Yes	JUKEBOX-Music Across Borders, LIB-JUKEBOX/4-1049
	Yes	"ESPRIT Project 24378 - MENHIR European Multimedia network of high quality image registration", Museums On Line, Feb. 1, 1997
	Yes	"ESPIRIT Project 22226 - MUSE - Developing standardized digital media management, signaling and encryption systems for the European music sector", International Federation of the Phonographic Industry, Oct. 1998
	Yes	"STARFISH State of the Art Dinancial Services for the inHabitants of isolated areas - Project Profile" information society technologies, time schedule Jan. 21, 2000 - Jun. 30, 2002

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Anticipates	Renders Obvious	Description
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Y	Yes	Boisson, Jean-Francois; "Management of Intellectual Property Rights in the Electronic Commerce: Textile Design Sales And Other Similar Initiatives," EURITIS
	Yes	U.S. Patent No. 5,251,294; Oct. 5, 1993
	Yes	S.H. Low, N.F. Maxemchuk, J.T. Bassil, & L. O'Gorman, Document Marking and Identification Using Both Line and Word Shifting, Infocom 95, 1994
	Yes	Caroni, Maxemchuck & O'Gorman, Electronic Marking and Identification Techniques to Discourage Document Copying, Proc. Infocom 94, 1994
	Yes	Wagner, Fingerprinting, IEEE Symp. On Info. and Privacy, Apr., 93
	Yes	H. Berghal, L Ogorman, "Protecting Ownership Rights Through Digital Watermarking", IEEE Computing v. 29, No.7, Jul., 1996,
	Yes	Chor, Fiat & Naor, Tracing Traitors, Crypto 94, p. 257, 1994
	Yes	David Chaum, "Security Without Identification: Transaction Systems to Make Big Brother Obsolete", Comm. Of the ACM, vol. 28, no. 10, Oct. 1985
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	Yes	Michael Lesk, Digital Libraries Meet Electronic Commernce: On-Screen Intellectual Property, Dec. 15, 98

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Anticipates	Renders Obvious	Description
	Yes	Lorcan Dempsey & Stuart L. Weibel; The Warwick Metadata Workshop: A Framework for the Deployment of Resource Description, Jul./ Aug. 96
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	Yes	Pethia, R.; Crocker, S.; Fraser, B.; "Guidelines for the Secure Operation of the Internet", Network Working Group RFC 1281, Nov., 1991
	Yes	Galvin, J.; McCloghrie, K.; "Security Protocols for version 2 of the Simple Network Management Protocol (SNMPv2)", Network Working Group RFC 1446, Apr., 1993
	Yes	Eastlake III, D.; "Physical Link Security Type of Service", Network Working Group RFC 1455, May, 1993
	Yes	Kastenholz, F.; "The Definitions of Managed Objects for the Security Protocols of the Point-to-Point Protocol", Network Working Group RFC 1472, Jun. 1993
Y	Yes	Kohl, J., Neuman, C.; "The Kerberos Network Authentication Service (V5)", Network Working Group RFC 1510, Sep., 1993
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	Yes	Haller, N.; "The S/KEY One-Time Password System", Network Working Group RFC 1760, Feb., 1995
	Yes	Atkinson, R.; "Security Architecture for the Internet Protocol", Network Working Group RFC 1825, Aug., 1995
	Yes	Crocker, S.; Freed, N.; Galvin, J.; Murphy, S.; "MIME Object Security Services", Network Working Group RFC 1848, Oct., 1995
	Yes	U.S. Patent No. 5,251,294; Oct. 5, 1993
	Yes	S.H. Low, N.F. Maxemchuk, J.T. Bassil, & L. O'Gorman, "Document Marking and Identification Using Both Line and Word Shifting," AT&T Bell Laboratories, Infocom 95, Jul. 29, 1994
	Yes	Brassil, J.; Low, S.; Maxemchuck, N.; O'Gorman L.; "Electronic Marking and Identification Techniques to Discourage Document Copying," AT&T Bell Laboratories, Proc. Infocom 94, 1994
	Yes	Wagner, Neal; "Fingerprinting," Drexel University, IEEE Symp. On Info. and Privacy, Apr., 1993
	Yes	Berghal, Hal; Ogorman, Lawrence; "Protecting Ownership Rights Through Digital Watermarking," IEEE Computing v. 29, no.7, pp. 101-103, Jul., 1996
	Yes	Chor, Benny; Fiat, Amos; Naor, Moni; "Tracing Traitors," Crypto 94, p. 257, 1994

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Anticipates	Renders Obvious	Description
	Yes	Chaum, David; "Security Without Identification: Transaction Systems to Make Big Brother Obsolete", Communications of the ACM, vol. 28, no. 10, Oct., 1985
	Yes	Chaum, David; Pederson, Torben Pryds; "Wallet Databases with Observers", CWI, Aarhus University, David Chaum, Advances in Cryptology -- Proceedings of Crypto '92, pp. 89-105, 1992
	Yes	Kohl, Ulrich; Lotspiech, Jeffrey; Kaplan, Marc; "Safeguarding Digital Library Contents and Users", IBM Research Division, D-Lib Magazine, Sept., 1997
	Yes	Schutzer, Daniel; "A Need for a Common Infrastructure: Digital Libraries and Electronic Commerce," Citibank, D-Lib Magazine, Apr., 1996
	Yes	Paepcke, Andreas; "Summary of Stanford's Digital Library Testbed and Status", Stanford University, D-Lib Magazine, Jul.-Aug., 1996
	Yes	Dempsey, Lorcan; Weibel, Stuart L.; "The Warwick Metadata Workshop: A Framework for the Deployment of Resource Description", University of Bath, OCLC Office of Research, D-Lib Magazine, Jul.-Aug., 1996
	Yes	"AT&T Smart Cards Systems & Solutions", AT&T, 1993
	Yes	Brad J. Cox, Dr., "What if there is a silver bullet?", Dobbs Journal, Oct. 1992
	Yes	Guillou, Louis C.; "Smart Cards and Conditional Access", Springer-Verlag, 1988
	Yes	Chaum, David; "Untraceable Electronic Mail, Return Addresses, and Digital Pseudonyms", Communications of the ACM, vol. 24, No. 3, Feb., 1981
	Yes	Kent, S.; "U.S. Department of Defense Security Options for the Internet Protocol", Network Working Group RFC 1108, Nov. 1991
	Yes	Deering, S.; "Host Extensions for IP Multicasting", Network Working Group RFC 1112, Aug. 1989
	Yes	White, Steve R.; Comerford, Liam; "ABYSS: A Trusted Architecture for Software Protection", IEEE, Apr. 27, 1987
	Yes	Ross, Philip E.; "Cops versus robbers in cyberspace"; Forbes, Sep. 9, 1996
	Yes	"Data Networks and Open System Communications, Directory: Information Technology – Open Systems Interconnection – The Directory: Overview of Concepts, Models, and Services", ITU-T Recommendation X.500, International Telecommunication Union, Nov. 1993
	Yes	Bender, W.; Gruhl, D.; Morimoto, N.; Lu, A.; "Techniques for data hiding", IBM Systems Journal, Vol. 35, Nos. 3&4, 1996
	Yes	Maxemchuk, N.F.; "Electronic Document Distribution", AT&T Bell Laboratories
	Yes	Doster, Bill; Rees, Jim; "Third-Party Authentication in the Institutional File System", Center for Information Technology Integration
	Yes	Levy, Steven; "E-Money (That's What I Want)", Wired Magazine, Issue 2.12, Dec. 94
	Yes	Arms, William Y., "Key Concepts in the Architecture of the Digital Library", D-Lib Magazine, Jul. 1995
	Yes	Weingart, S.H., "Physical Security for the uABYSS System", IEEE, 1987
	Yes	B. Strohm, L. Comerford, S. R. White, "ABYSS: Tokens", IBM Research Report Number RC 12402, Dec. 18, 1986

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InterTrust Tech. Corp. v. Microsoft Corp.
Case No. C 01-1640 SBA (MEJ)

APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	Gozani, Shai; Gray, Mary; Keshav, Srinivasan; Madisetti, Mijay; Munson, Ethan; Rosenblum, Mendel; Schoettler, Steve; Sullivan, Mark; Terry, Douglas; "GAFFES: The Design of a Globally Distributed File System", Report No. UCB/CSD 87/361; Computer Science Division (EECS), U.C. Berkley, Jun. 1997
	Yes	Chaum, David; Fiat, Amos; Naor, Moni; "Untraceable Electronic Cash", Lecture Notes in Computer Science, 403, Advances in Cryptology.- CRYPTO '88 Proceedings, 1988
	Yes	Chaum, David; "Privacy and Social Protection in Electronic Payment Systems", Chapter 12, The Future of Money in the Information Age
	Yes	Bos, Jurjen.; Chaum, David; "SmartCash: a Practical Electronic Payment System", Center for Mathematics and Computer Science, Report CS-R9035, Aug.
	Yes	Gircys, Gintaras R.; Understanding and Using COFF, O'Reilly & Associates, Inc.; Nov. 1988
	Yes	Unix System V, Release 3.2, Programmer's Guide Vol. II, AT&T, Prentice Hall, 1989
	Yes	Richarson, Dennis W.; Electric Money: Evolution of an Electronic Funds-Transfer System, The MIT Press, 1970
	Yes	Custer, Helen; Inside Windows NT, Microsoft Press, Redmond, WA, 1993
	Yes	Pietrek, Matt; Windows Internals: The Implementation of the Windows Operating Environment, Addison-Wesley, 1993
	Yes	Gilde, R., "DAT-Heads: Frequently Asked Questions", 1991, Release 3.1-Sep. 2, 1992
	Yes	Tardo, Joseph; Valente, Luis; "Mobile Agent Security and Telescript", General Magic, Inc.
	Yes	"Telescript Security", BYTE.com, Oct. 1994
	Yes	"Forum on Risks to the Public in Computers and Related Systems: ACM Committee on Computers and Public Policy, Peter G. Neumann, moderator", Risks-Forum Digest, Vol. 15, Issue 40, Jan. 24, 1994
	Yes	Sahuguet, Arnaud; "Piracy: the Dark Side of Electronic Commerce: CIS-700/2", Univ. of Pennsylvania, May 5, 1998
Y	Yes	Rouaix, Francois; "A Web navigator with applets in Caml", INRIA
	Yes	Fuchsberger, Andreas; Gollmann, Dieter; Lothian, Paul; Paterson, Kenneth G.; Sidiropoulos, Abraham; "Public-key Cryptography on Smart Cards", Information Security Group
	Yes	"An Introduction to Safety and Security in Telescript", Telescript Powered
	Yes	Clarke, Roger; Bunting, Angela; "Cryptography issues in plain text", Privacy Law and Policy Reporter, 1996
Y	Yes	Pratt & Witney Inuse
Y	Yes	Use of ATM
Y	Yes	Use of Set Top Box
Y	Yes	Protective Envelope System
		PRIOR ART
	Yes	3,573,747; Adams et al.

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	3,609,697; Blevins
	Yes	3,790,700; Callais et al.
	Yes	3,796,830; Smith
	Yes	3,798,359; Feistel
	Yes	3,798,360; Feistel
	Yes	3,798,605; Feistel
	Yes	3,806,882; Clarke
	Yes	3,829,833; Freeny, Jr.
	Yes	3,906,448; Henriques
	Yes	3,911,397; Freeny, Jr.
	Yes	3,924,065; Freeny, Jr.
	Yes	3,931,504; Jacoby
	Yes	3,946,200; Brobeck et al.
	Yes	3,946,220; Brobeck et al.
	Yes	3,956,615; Anderson et al.
	Yes	3,958,081; Ehrsam et al.
	Yes	3,970,992; Boothroyd et al.
	Yes	4,048,619; Forman, Jr. et al.
	Yes	4,071,911; Mazur
	Yes	4,112,421; Freeny, Jr.
	Yes	4,120,030; Johnstone
	Yes	4,162,483; Entenman
	Yes	4,163,280; Mori et al.
	Yes	4,168,396; Best
	Yes	4,196,310; Forman et al.
	Yes	4,200,913; Kuhar et al.
	Yes	4,209,787; Freeny, Jr.
	Yes	4,217,588; Freeny, Jr.
	Yes	4,220,991; Hamano et al.
	Yes	4,232,193; Gerard
	Yes	4,232,317; Freeny, Jr.
	Yes	4,236,217; Kennedy
	Yes	4,253,157; Kirschner et al.
	Yes	4,262,329; Bright et al.
	Yes	4,265,371; Desai et al.
	Yes	4,270,182; Asija
	Yes	4,278,837; Best
	Yes	4,305,131; Best
	Yes	4,306,289; Lumley
	Yes	4,309,569; Merkle
	Yes	4,319,079; Best
	Yes	4,323,921; Guillou
	Yes	4,328,544; Baldwin et al.
	Yes	4,337,483; Guillou
	Yes	4,361,877; Dyer et al.
	Yes	4,375,579; Davida et al.
	Yes	4,433,207; Best
	Yes	4,434,464; Suzuki et al.

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	4,442,486; Mayer
	Yes	4,446,519; Thomas
	Yes	4,454,594; Heffron et al.
	Yes	4,458,315; Uchenick
	Yes	4,462,076; Smith, III
	Yes	4,462,078; Ross
	Yes	4,465,901; Best
	Yes	4,471,163; Donald et al.
	Yes	4,484,217; Block et al.
	Yes	4,494,156; Kadison et al.
	Yes	4,513,174; Herman
	Yes	4,528,588; Lofberg
	Yes	4,528,643; Freeny, Jr.
	Yes	4,553,252; Egendorf
	Yes	4,558,176; Arnold et al.
	Yes	4,558,413; Schmidt et al.
	Yes	4,562,306; Chou et al.
	Yes	4,562,495; Bond et al.
	Yes	4,577,289; Comerford et al.
	Yes	4,584,641; Guglielmino
	Yes	4,588,991; Atalla
	Yes	4,589,064; Chiba et al.
	Yes	4,593,183; Fukatsu
	Yes	4,593,353; Pickholtz
	Yes	4,593,376; Volk
	Yes	4,595,950; Lofberg
	Yes	4,597,058; Izumi et al.
	Yes	4,622,222; Johnson
	Yes	4,634,807; Chorley et al.
	Yes	4,644,493; Chandra et al.
	Yes	4,646,234; Tolman et al.
	Yes	4,652,990; Pailen et al.
	Yes	4,658,093; Hellman
	Yes	4,670,857; Rackman
	Yes	4,672,572; Alsberg
	Yes	4,677,434; Fascenda
	Yes	4,677,552; Sibley, Jr.
	Yes	4,680,731; Izumi et al.
	Yes	4,683,553; Mollier
	Yes	4,685,056; Barnsdale et al.
	Yes	4,688,169; Joshi
	Yes	4,691,350; Kleijne et al.
	Yes	4,696,034; Wiedemer
	Yes	4,700,296; Palmer, Jr. et al.
	Yes	4,701,846; Ikeda et al.
	Yes	4,712,238; Gilhousen et al.
	Yes	4,713,753; Boebert et al.
	Yes	4,727,550; Chang et al.

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	4,740,890; William
	Yes	4,747,139; Taaffe
	Yes	4,757,533; Allen et al.
	Yes	4,757,534; Matyas et al.
	Yes	4,768,087; Taub et al.
	Yes	4,791,565; Dunham et al.
	Yes	4,796,181; Wiedemer
	Yes	4,798,209; Klingenbeck et al.
	Yes	4,799,156; Shavit et al.
	Yes	4,807,288; Ugon et al.
	Yes	4,817,140; Chandra et al.
	Yes	4,823,264; Deming
	Yes	4,827,508; Shear
	Yes	4,858,121; Barber et al.
	Yes	4,864,494; Kobus
	Yes	4,866,769; Karp
	Yes	4,868,877; Fischer
	Yes	4,903,296; Chandra et al.
	Yes	4,924,378; Hershey et al.
	Yes	4,930,073; Cina, Jr.
	Yes	4,949,187; Cohen
	Yes	4,975,647; Downer et al.
	Yes	4,977,594; Shear
	Yes	4,999,806; Chernow et al.
	Yes	5,001,752; Fischer
	Yes	5,005,122; Griffin et al.
	Yes	5,005,200; Fischer
	Yes	5,010,571; Katznelson
	Yes	5,023,907; Johnson et al.
	Yes	5,047,928; Wiedemer
	Yes	5,048,085; Abraham et al.
	Yes	5,050,213; Shear
	Yes	5,091,966; Bloomberg et al.
	Yes	5,103,392; Mori
	Yes	5,103,476; Waite et al.
	Yes	5,111,390; Ketcham
	Yes	5,119,493; Janis et al.
	Yes	5,126,936; Champion et al.
	Yes	5,128,525; Stearns et al.
	Yes	5,136,643; Fischer
	Yes	5,136,646; Haber et al.
	Yes	5,136,647; Haber et al.
	Yes	5,136,716; Harvey et al.
	Yes	5,146,575; Nolan, Jr.
	Yes	5,148,481; Abraham et al.
	Yes	5,155,680; Wiedemer
Y	Yes	5,163,091; Graziano et al.
	Yes	5,168,147; Bloomberg

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	5,185,717; Mori
	Yes	5,187,787; Skeen et al.
	Yes	5,201,046; Goldberg et al.
	Yes	5,201,047; Maki et al.
	Yes	5,208,748; Flores et al.
	Yes	5,214,702; Fischer
	Yes	5,216,603; Flores et al.
	Yes	5,221,833; Hecht
	Yes	5,222,134; Waite et al.
	Yes	5,224,160; Paulini et al.
	Yes	5,224,163; Gasser et al.
	Yes	5,227,797; Murphy
	Yes	5,235,642; Wobber et al.
	Yes	5,241,671; Reed et al.
	Yes	5,245,165; Zhang
	Yes	5,247,575; Sprague et al.
	Yes	5,257,369; Skeen et al.
	Yes	5,260,999; Wyman
	Yes	5,263,158; Janis
	Yes	5,265,164; Matyas et al.
Y	Yes	5,276,735; Boebert et al.
	Yes	5,280,479; Mary
	Yes	5,285,494; Sprecher et al.
	Yes	5,301,231; Abraham et al.
	Yes	5,311,591; Fischer
	Yes	5,319,705; Halter et al.
	Yes	5,319,785; Halter et al.
	Yes	5,335,169; Chong
	Yes	5,337,360; Fischer
	Yes	5,341,429; Stringer et al.
	Yes	5,343,527; Moore
	Yes	5,347,579; Blandford
	Yes	5,351,293; Michener et al.
Y	Yes	5,355,474; Thuraisngham et al.
	Yes	5,365,587; Campbell et al.
	Yes	5,373,440; Cohen et al.
	Yes	5,373,561; Haber et al.
	Yes	5,390,247; Fischer
	Yes	5,390,330; Talati
	Yes	5,392,220; van den Hamer et al.
	Yes	5,392,390; Crozier
	Yes	5,394,469; Nagel et al.
	Yes	5,410,598; Shear
	Yes	5,412,717; Fischer
	Yes	5,418,713; Allen
	Yes	5,420,927; Micali
	Yes	5,421,006; Jablon
	Yes	5,422,953; Fischer

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	5,428,606; Moskowitz
	Yes	5,438,508; Wyman
	Yes	5,442,645; Ugon
	Yes	5,444,779; Daniele
	Yes	5,449,895; Hecht et al.
	Yes	5,449,896; Hecht et al.
	Yes	5,450,493; Maher
	Yes	5,453,601; Rosen
	Yes	5,453,605; Hecht et al.
	Yes	5,455,407; Rosen
	Yes	5,455,861; Faucher et al.
	Yes	5,455,953; Russell
	Yes	5,457,746; Dolphin
	Yes	5,457,747; Drexler et al.
	Yes	5,458,494; Krohn et al.
	Yes	5,463,565; Cookson et al.
	Yes	5,473,687; Lipscomb et al.
	Yes	5,473,692; Davis
	Yes	5,479,509; Ugon
	Yes	5,485,622; Yamaki
	Yes	5,491,800; Goldsmith et al.
	Yes	5,497,479; Hornbuckle
	Yes	5,497,491; Mitchell et al.
	Yes	5,499,298; Narasimhalu et al.
	Yes	5,504,757; Cook et al.
	Yes	5,504,818; Okano
	Yes	5,504,837; Griffeth et al.
	Yes	5,508,913; Yamamoto et al.
	Yes	5,509,070; Schull
	Yes	5,513,261; Maher
	Yes	5,517,518; Rosen
	Yes	5,530,235; Stefik et al.
	Yes	5,530,752; Rubin
	Yes	5,533,123; Force et al.
	Yes	5,534,855; Shockley et al.
	Yes	5,534,975; Stefik et al.
	Yes	5,535,322; Hecht
	Yes	5,537,526; Anderson et al.
	Yes	5,539,735; Moskowitz
	Yes	5,539,828; Davis
	Yes	5,550,971; Brunner et al.
	Yes	5,553,282; Parrish et al.
	Yes	5,557,518; Rosen
	Yes	5,557,798; Skeen et al.
	Yes	5,563,946; Cooper et al.
	Yes	5,568,552; Davis
	Yes	5,572,673; Shurts
	Yes	5,592,549; Naget et al.

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious?	Description
	Yes	5,606,609; Houser et al.
	Yes	5,613,004; Cooperman et al.
	Yes	5,621,797; Rosen
	Yes	5,629,770; Brassil et al.
	Yes	5,629,980; Stefik et al.
	Yes	5,633,932; Davis et al.
	Yes	5,634,012; Stefik et al.
	Yes	5,636,292; Rhoads
	Yes	5,638,443; Stefik et al.
	Yes	5,638,504; Scott et al.
	Yes	5,640,546; Gopinath et al.
	Yes	5,655,077; Jones et al.
	Yes	5,678,170; Grube et al.
	Yes	5,687,236; Moskowitz et al.
	Yes	5,689,587; Bender et al.
Y	Yes	5,692,047; McManis
	Yes	5,692,180; Lee
	Yes	5,710,834; Rhoads
	Yes	5,715,403; Stefik
	Yes	5,721,788; Powell et al.
	Yes	5,732,398; Tagawa
	Yes	5,740,549; Reilly et al.
	Yes	5,745,604; Rhoads
	Yes	5,748,763; Rhoads
	Yes	5,748,783; Rhoads
	Yes	5,748,960; Fischer
	Yes	5,754,849; Dyer et al.
	Yes	5,757,914; McManis
	Yes	5,758,152; LeTourneau
Y	Yes	5,765,152; Erickson
	Yes	5,768,426; Rhoads
	Yes	5,774,872; Golden et al.
	Yes	5,819,263; Bromley et al.
	Yes	5,842,173; Strum et al.
	Yes	BE 9 004 79
	Yes	DE 3 803 982
	Yes	DE 3 803 982 A1
	Yes	EP 0 084 441
	Yes	EP 0 084 441 A1
	Yes	EP 0 128 672
	Yes	EP 0 128 672 A1
	Yes	EP 0 135 422
	Yes	EP 0 135 422 A1
	Yes	EP 0 180 460
	Yes	EP 0 180 460 A1
	Yes	EP 0 370 146
	Yes	EP 0 370 146 A1
	Yes	EP 0 399 822 A2

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	EP 0 421 409
	Yes	EP 0 421 409 A2
	Yes	EP 0 456 386
	Yes	EP 0 456 386 A2
	Yes	EP 0 469 864
	Yes	EP 0 469 864 A2
	Yes	EP 0 469 864 A3
	Yes	EP 0 565 314
	Yes	EP 0 565 314 A2
	Yes	EP 0 593 305
	Yes	EP 0 593 305 A2
	Yes	EP 0 651 554
	Yes	EP 0 651 554 A1
	Yes	EP 0 668 695
	Yes	EP 0 668 695 A2
	Yes	EP 0 668 695 A3
	Yes	EP 0 695 985
	Yes	EP 0 695 985 A1
	Yes	EP 0 696 798
	Yes	EP 0 696 798 A1
	Yes	EP 0 714 204
	Yes	EP 0 714 204 A2
	Yes	EP 0 715 243
	Yes	EP 0 715 243 A1
	Yes	EP 0 715 244
	Yes	EP 0 715 244 A1
	Yes	EP 0 715 245
	Yes	EP 0 715 245 A1
	Yes	EP 0 715 246
	Yes	EP 0 715 246 A1
	Yes	EP 0 715 247
	Yes	EP 0 715 247 A1
	Yes	EP 0 725 376
	Yes	EP 0 725 376 A2
	Yes	EP 0 749 081
	Yes	EP 0 749 081 A1
	Yes	EP 0 763 936
	Yes	EP 0 763 936 A2
	Yes	EP 0 778 513
	Yes	EP 0 778 513 A2
	Yes	EP 0 795 873
	Yes	EP 0 795 873 A2
	Yes	EP 0 800 312
	Yes	EP 0 800 312 A1
	Yes	GB 2,136,175
	Yes	GB 2,264,796
	Yes	GB 2,294,348
	Yes	GB 2,295,947

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	JP 01-068835
	Yes	JP 02-242352
	Yes	JP 02-247763
	Yes	JP 02-294855
	Yes	JP 04-369068
	Yes	JP 05-181734
	Yes	JP 05-257783
	Yes	JP 05-268415
	Yes	JP 06-175794
	Yes	JP 06-215010
	Yes	JP 06-225059
	Yes	JP 07-056794
	Yes	JP 07-084852
	Yes	JP 07-141138
	Yes	JP 07-200317
	Yes	JP 07-200492
	Yes	JP 07-244639
	Yes	JP 08-137795
	Yes	JP 08-152990
	Yes	JP 08-185292
	Yes	JP 08-185298
	Yes	JP 57-726
	Yes	JP 62-241061
	Yes	WO 85/02310
	Yes	WO 85/03584
	Yes	WO 90/02382
	Yes	WO 92/06438
	Yes	WO 92/22870
	Yes	WO 93/01550
	Yes	WO 94/01821
	Yes	WO 94/03859
	Yes	WO 94/06103
	Yes	WO 94/16395
	Yes	WO 94/18620
	Yes	WO 94/22266
	Yes	WO 94/27406
	Yes	WO 95/14289
	Yes	WO 96/00963
	Yes	WO 96/03835
	Yes	WO 96/05698
	Yes	WO 96/06503
	Yes	WO 96/13013
	Yes	WO 96/21192
	Yes	WO 96/24092
	Yes	WO 97/03423
	Yes	WO 97/07656
	Yes	WO 97/25816
	Yes	WO 97/32251

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APPENDIX OF PRIOR ART*

Anticipates	Renders Obvious	Description
	Yes	WO 97/48203
	Yes	Amerke, David, et al., News Release, AT&T, Jan. 9, 1995, AT&T encryption system protects information services, 1 page.
	Yes	Applications Requirements for Innovative Video Programming; How to Foster (or Cripple) Program Development Opportunities for Interactive Video Programs Delivered on Optical Media; A Challenge for the Introduction of DVD (Digital Video Disc) (19-20 Oct. 19
	Yes	Argent Information Q&A Sheet, http://www.digital-watermark.com/, Copyright 1995, The DICE Company, 7 pages.
	Yes	Automation of Securities Markets and Regulatory Implications, Financial Market Trends, n50, p. 20-33, Oct. 1991. [File 148, Gale Group Trade & Industry DB, Dialog(R) commercial database]
	Yes	Avery et al, Recommender Systems For Evaluating Computer Messages, Communications of the ACM, pp. 88-89 (Mar. 1997).
	Yes	Background on the Administration's Telecommunications Policy Reform Initiative, News Release, The White House, Office of the President, Jan. 11, 1994
	Yes	Baggett, Claude, Cable's Emerging Role in the Information Superhighway, Cable Labs, 13 slides.
	Yes	Balabanovic et al, Content-based, Collaborative Recommendation, Communications of the ACM, pp. 66-72 (Mar. 1997).
	Yes	Barassi, Theodore Sedgwick Esq., The Cybernotary: Public Key Registration and Certificaiton and Authentication of International Legal Transactions, 4 pages.
	Yes	Barnes, Hugh, memo to Henry LaMuth, subject: George Gilder articles, May 31, 1994.
	Yes	Bart, Dan, Comments in the Matter of Public Hearing and Request for Comments on the International Aspects of the National Information Infrastructure, Before the Department of Commerce, Aug. 12, 1994.
	Yes	Baum, Michael, Worldwide Electronic Commerce: Law, Policy and Controls Conference, program details, Nov. 11, 1993.
	Yes	Best, Robert M., Digest of Papers, VLSI: New Architectural Horizons, Feb. 1980, Preventing Software Piracy With Crypto-Microprocessors, pp. 466-469.
	Yes	Bisbey, Richard L., II and Gerald J Popek, Encapsulation: An Approach to Operating System Security, (USC/Information Science Institute, Marina Del Rey, CA) Oct. 1973, pp. 666-675.
	Yes	Blom et al., Encryption Methods in Data Networks, Ericsson Technics, No. 2, 1978, Stockholm, Sweden.
	Yes	Bruner, Rick E., "PowerAgent, NetBot help advertisers reach Internet shoppers," Aug. 1997 (Document from Internet).
	Yes	Cable Television and America's Telecommunications Infrastructure, (National Cable Television Association, Washington, D.C.), Apr. 1993, 19 pages.
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